



1

SEQUENCE LISTING

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 50

<170> PatentIn Ver. 2.1

<210> 1
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(12)
<223> Myosin light chain 1

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (7)
<223> May be either Pro or Ala.

<400> 1
Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
1 5 10

<210> 2
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(12)
<223> Myosin light chain 1

<220>

<221> PEPTIDE

<222> (1)

<223> May be any amino acid.

<400> 2

Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro

1

5

10

<210> 3

<211> 11

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(11)

<223> malate dehydrogenase

<220>

<221> PEPTIDE

<222> (1)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (8)

<223> May be any amino acid.

<400> 3

Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile

1

5

10

<210> 4

<211> 13

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(13)

<223> ATP g synthase chain

<220>

<221> PEPTIDE

<222> (1)

<223> May be any amino acid.

<220>

<221> PEPTIDE

<222> (2)

<223> May be any amino acid.

<400> 4

Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile

1

5

10

<210> 5

<211> 10

<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(10)
<223> ATP synthase oligomycin conferring protein

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (2)
<223> May be any amino acid.

<400> 5
Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(10)
<223> serum albumin

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<400> 6
Xaa Ala His Lys Ser Glu Ile Ala His Arg
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(11)
<223> triose phosphate isomerase

<220>
<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<220>
<221> PEPTIDE
<222> (4)

<223> May be Arg or Leu.

<400> 7

Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn		
1	5	10

<210> 8

<211> 209

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(209)

<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala			
1	5	10	15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro		
20	25	30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu		
35	40	45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala		
50	55	60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln			
65	70	75	80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys		
85	90	95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp		
100	105	110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr		
115	120	125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg		
130	135	140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala			
145	150	155	160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys		
165	170	175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
195 200 205

Ser

<210> 9
<211> 186
<212> PRT
<213> Unknown

```
<220>
<221> PEPTIDE
<222> (1)..(186)
<223> Human slow skeletal troponin I
```

<220>
<223> Swiss prot identification number P19237

<300>
<303> Genomics
<304> 7
<305> 3
<306> 346-357
<307> Jul-1990

<400> 9
Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
 180 185

<210> 10
 <211> 181
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(181)
 <223> Human fast skeletal troponin I

<220>
 <223> Swiss prot identification number P48788

<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

<400> 10
 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
 1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30

Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Glu Ser Glu Ser

<210> 11
<211> 210
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(210)
<223> Rat cardiac troponin I

<220>
<223> Swiss prot identification number P23693

<300>
<303> Biochemistry
<304> 30
<305> 3
<306> 707-712
<307> 1991-01-22

<400> 11
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
130 135 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145 150 155 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
165 170 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
180 185 190

Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Phe

195

200

205

Glu Gly
210

<210> 12
<211> 186
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(186)
<223> Rat slow skeletal troponin I

<220>
<223> Swiss prot identification number P13413

<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14327-14333
<307> 1989-08-25

<400> 12
Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln

180

185

<210> 13
<211> 181
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(181)
<223> Rat fast skeletal troponin I

<220>
<223> Swiss prot identification number P27768

<300>
<308> EMBL/GENBANK/DDBJ DATA BANKS
<309> 1992-08-01

<400> 13
Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
20 25 30

Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Lys Tyr Asp
65 70 75 80

Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Glu Ser Glu Ser
180

<210> 14
<211> 287
<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1) .. (287)

<223> Human cardiac troponin T

<220>

<223> Swiss prot identification number P45379

<300>

<303> FEBS Lett.

<304> 328

<305> 1-2

<306> 139-144

<307> 1993-08-09

<400> 14

Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln Glu
1 5 10 15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
20 25 30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
 35 40 45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
50 55 60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
65 70 75 80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
85 90 95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
100 105 110

Lys Lys Glu Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
115 120 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
130 135 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
145 150 155 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
165 170 175

Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
180 185 190

Thr Glu Arg Lys Ser Gly Lys Arg Gin Thr Glu Arg Glu Lys Lys Lys
195 200 205

Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
210 215 220

Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gin Ser Ile Tyr

11

225	230	235	240
Asn Leu Glu Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln			
245		250	255
Lys Tyr Glu Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys			
260		265	270
Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys			
275		280	285

<210> 15
<211> 277
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)...(277)
<223> Human slow skeletal troponin T

<220>
<223> Swiss prot identification number P13805

<300>
<303> J. Biol. Chem.
<304> 262
<305> 33
<306> 16122-16126
<307> 1987-11-25

<400> 15
Ser Asp Thr Glu Glu Gln Glu Tyr Glu Glu Glu Gln Pro Glu Glu Glu
1 5 10 15

Ala Ala Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala
20 25 30

Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro
35 40 45

Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp
50 55 60 80

Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu
65 70 75 80

Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val
85 90 95

Ala Leu Lys Glu Arg Ile Glu Arg Arg Ser Glu Arg Ala Glu Gln
100 105 110

Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala
115 120 125

Glu Glu Lys Met Arg Lys Glu Glu Glu Ala Lys Lys Arg Ala Glu
130 135 140

Asp Asp Ala Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe

12

145 150 155 160
Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
165 170 175
Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
180 185 190
Asp Ile Asp Tyr Met Gly Glu Gln Leu Arg Ala Arg Ser Ala Trp
195 200 205
Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
210 215 220
Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
225 230 235 240
Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
245 250 255
Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
260 265 270
Gly Gly Arg Trp Lys
275

<210> 16

<211> 257

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(257)

<223> Human fast skeletal troponin T

<220>

<223> Swiss prot identification number P45378

<300>

<303> DNA Cell Biol.

<304> 13

<305> 3

<306> 217-233

<307> MAR-1994

<400> 16

Ser Asp Glu Glu Val Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu
1 5 10 15

Glu Ala Gln Glu Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
20 25 30

Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
35 40 45

Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
50 55 60

Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala

65

70

75

80

Arg Lys Lys Glu Glu Glu Glu Leu Val Ala Leu Lys Glu Arg Ile Glu
 85 90 95

Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu Lys
 100 105 110

Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg Glu
 115 120 125

Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys Lys
 130 135 140

Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys Ala
 145 150 155 160

Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys Lys
 165 170 175

Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Gly Glu
 180 185 190

Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Glu Thr Leu His Gln
 195 200 205

Leu Glu Ile Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln Lys
 210 215 220

Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys His
 225 230 235 240

Ser Lys Lys Ala Gly Thr Pro Ala Lys Gly Lys Val Gly Gly Arg Trp
 245 250 255

Lys

<210> 17
 <211> 298
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(298)
 <223> Rat cardiac troponin T

<220>
 <223> Swiss prot identification number P50753

<300>
 <303> J. Biol. Chem.
 <304> 264
 <305> 24
 <306> 14471-14477
 <307> 1989-08-25

<400> 17
 Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Glu Gln Glu Glu
 1 5 10 15

Glu Asp Trp Ser Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
 20 25 30

Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
 35 40 45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
 50 55 60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65 70 75 80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
 85 90 95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
 100 105 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
 115 120 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
 130 135 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
 145 150 155 160

Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
 165 170 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met
 180 185 190

Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser
 195 200 205

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Ile Leu Ala Glu
 210 215 220

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
 225 230 235 240

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu
 245 250 255

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
 260 265 270

Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
 275 280 285

Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 290 295

<210> 18
 <211> 258
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(258)
 <223> Rat fast skeletal troponin T

 <220>
 <223> Swiss prot identification number P09739

 <300>
 <303> J. Mol. Biol.
 <304> 188
 <305> 3
 <306> 313-324
 <307> 1986-04-05

 <400> 18
 Ser Asp Glu Glu Thr Glu Gln Val Glu Glu Gln Tyr Glu Glu Glu Glu
 1 5 10 15

 Glu Ala Gln Glu Glu Glu Val Gln Glu Glu Ala Pro Glu Pro Glu Glu
 20 25 30

 Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
 35 40 45

 Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
 50 55 60

 Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
 65 70 75 80

 Ala Arg Lys Lys Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
 85 90 95

 Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
 100 105 110

 Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
 115 120 125

 Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
 130 135 140

 Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
 145 150 155 160

 Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
 165 170 175

 Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
 180 185 190

 Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
 195 200 205

 Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
 210 215 220

 Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
 225 230 235 240

His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
245 250 255

Trp Lys

<210> 19
<211> 192
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(192)
<223> rat myosin light chain 1, atrial isoform

<220>
<223> Swiss prot identification number P17209

<300>
<303> Nucleic Acids Res.
<304> 18
<305> 6
<306> 1581-1586
<307> 1990-03-25

<400> 19

Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
1 5 10 15

Ala Pro Ala Pro Ala Pro Ala Pro Glu Pro Leu Arg Asp Ser
20 25 30

Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
35 40 45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly
50 55 60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu
65 70 75 80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro
85 90 95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu
100 105 110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gln Gly Thr Tyr Glu
115 120 125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Asn Gly Thr
130 135 140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys
145 150 155 160

Met Ser Glu Ala Glu Val Glu Gln Leu Leu Thr Gly Gln Glu Asp Ala
165 170 175

Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Val Met Ser Gly

180

185

190

<210> 20
<211> 193
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(193)
<223> Rat cardiac troponin I

<400> 20

Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
130 135 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145 150 155 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
165 170 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
180 185 190

Lys

<210> 21
<211> 192
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE

<222> (1)..(192)

<223> Human cardiac troponin I

<400> 21

Ala	Asp	Gly	Ser	Ser	Asp	Ala	Ala	Arg	Glu	Pro	Arg	Pro	Ala	Pro	Ala
1					5				10				15		

Pro	Ile	Arg	Arg	Arg	Ser	Ser	Asn	Tyr	Arg	Ala	Tyr	Ala	Thr	Glu	Pro
		20						25				30			

His	Ala	Lys	Lys	Lys	Ser	Lys	Ile	Ser	Ala	Ser	Arg	Lys	Leu	Gln	Leu
		35					40				45				

Lys	Thr	Leu	Leu	Leu	Gln	Ile	Ala	Lys	Gln	Glu	Leu	Glu	Arg	Glu	Ala
		50				55				60					

Glu	Glu	Arg	Arg	Gly	Glu	Lys	Gly	Arg	Ala	Leu	Ser	Thr	Arg	Cys	Gln
		65			70			75				80			

Pro	Leu	Glu	Leu	Ala	Gly	Leu	Gly	Phe	Ala	Glu	Leu	Gln	Asp	Leu	Cys
								85		90			95		

Arg	Gln	Leu	His	Ala	Arg	Val	Asp	Lys	Val	Asp	Glu	Glu	Arg	Tyr	Asp
						100		105					110		

Ile	Glu	Ala	Lys	Val	Thr	Lys	Asn	Ile	Thr	Glu	Ile	Ala	Asp	Leu	Thr
						115		120				125			

Gln	Lys	Ile	Phe	Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Thr	Leu	Arg
						130		135			140				

Arg	Val	Arg	Ile	Ser	Ala	Asp	Ala	Met	Met	Gln	Ala	Leu	Leu	Gly	Ala
						145		150		155		160			

Arg	Ala	Lys	Glu	Ser	Leu	Asp	Leu	Arg	Ala	His	Leu	Lys	Gln	Val	Lys
						165			170			175			

Lys	Glu	Asp	Thr	Glu	Lys	Glu	Asn	Arg	Glu	Val	Gly	Asp	Trp	Arg	Lys
					180			185				190			

<210> 22

<211> 131

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (63)..(193)

<223> Rat cardiac troponin I

<400> 22

Arg	Glu	Ala	Glu	Glu	Arg	Arg	Gly	Glu	Lys	Gly	Arg	Val	Leu	Ser	Thr
1					5				10				15		

Arg	Cys	Gln	Pro	Leu	Val	Leu	Asp	Gly	Leu	Gly	Phe	Glu	Glu	Leu	Gln
					20			25				30			

Asp	Leu	Cys	Arg	Gln	Leu	His	Ala	Arg	Val	Asp	Lys	Val	Asp	Glu	Glu
					35			40			45				

Arg Tyr Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
 50 55 60

Asp Leu Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro
 65 70 75 80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
 85 90 95

Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
 100 105 110

Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp
 115 120 125

Trp Arg Lys
 130

<210> 23
 <211> 131
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (62)..(192)
 <223> Human cardiac troponin I

<400> 23

Arg Glu Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr
 1 5 10 15

Arg Cys Gln Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln
 20 25 30

Asp Leu Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu
 35 40 45

Arg Tyr Asp Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala
 50 55 60

Asp Leu Thr Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro
 65 70 75 80

Thr Leu Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu
 85 90 95

Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys
 100 105 110

Gln Val Lys Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp
 115 120 125

Trp Arg Lys
 130

<210> 24
 <211> 121
 <212> PRT

Ala Met Met Gln Ala Leu Leu Gly Ala Arg Ala Lys Glu Ser Leu Asp
85 90 95

Leu Arg Ala His Leu Lys Gln Val Lys Lys Glu Asp Thr Glu Lys Glu
100 105 110

Asn Arg Glu Val Gly Asp Trp Arg Lys
115 120

<210> 26
<211> 17
<212> PRT
<213> Unknown

```
<220>
<221> PEPTIDE
<222> (194)..(210)
<223> Rat cardiac troponin I
```

<400> 26

Asn	Ile	Asp	Ala	Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Lys	Phe	Glu
1				5					10						15

Gly

<210> 27
<211> 17
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (193)..(209)
<223> Human cardiac troponin I

<400> 27

1 5 10 15

<211> 180
<212> PRT
<213> Unknown

<221> PEPTIDE
<222> (20)..(199)
<223> rat myosin light chain 1, atrial isoform

<400> 28

Ala Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro Glu Pro Glu Arg
1 5 10 15

Pro Lys Glu Ala Glu Phe Asp Ala Ser Lys Ile Lys Ile Glu Phe Thr
20 25 30

Pro Glu Gin Ile Glu Glu Phe Lys Glu Ala Phe Gln Leu Phe Asp Arg

35

40

45

Thr Pro Lys Gly Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val
 50 55 60

Leu Arg Ala Leu Gly Gln Asn Pro Thr Gln Ala Glu Val Leu Arg Val
 65 70 75 80

Leu Gly Lys Pro Lys Gln Glu Glu Leu Asn Ser Lys Met Met Asp Phe
 85 90 95

Glu Thr Phe Leu Pro Met Leu Gln His Ile Ser Lys Asn Lys Asp Thr
 100 105 110

Gly Thr Tyr Glu Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu
 115 120 125

Gly Asn Gly Thr Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr
 130 135 140

Leu Gly Glu Arg Leu Thr Glu Asp Glu Val Glu Lys Leu Met Ala Gly
 145 150 155 160

Gln Glu Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His
 165 170 175

Ile Met Ala Ser
 180

<210> 29
<211> 19
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> rat myosin light chain 1, atrial isoform

<400> 29
Pro Pro Lys Lys Pro Glu Pro Lys Lys Glu Thr Ala Lys Val Ala Ala
 1 5 10 15

Ala Pro Ala

<210> 30
<211> 108
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (191)..(298)
<223> Rat cardiac troponin T

<400> 30

Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg
 1 5 10 15

Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu
 20 25 30

Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln
 35 40 45

Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu
 50 55 60

Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu
 65 70 75 80

Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys
 85 90 95

Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 100 105

<210> 31
 <211> 190
 <212> PRT
 <213> Unknown

<220>
 <221> PEPTIDE
 <222> (1)..(190)
 <223> Rat cardiac troponin T

<400> 31
 Ser Asp Ala Glu Glu Val Val Glu Tyr Glu Glu Gln Glu Glu
 1 5 10 15

Glu Asp Trp Ser Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
 20 25 30

Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
 35 40 45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
 50 55 60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65 70 75 80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
 85 90 95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
 100 105 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
 115 120 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
 130 135 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
 145 150 155 160

Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
 165 170 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser
 180 185 190

<210> 32
<211> 106
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (182)...(287)
<223> Human cardiac troponin T

<400> 32
His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln Thr Glu Arg Lys Ser
 1 5 10 15

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
 20 25 30

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
 35 40 45

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr Asn Leu Glu Ala Glu
 50 55 60

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
 65 70 75 80

Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
 85 90 95

Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 100 105

<210> 33
<211> 181
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)...(181)
<223> Human cardiac troponin T

<400> 33
Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Gln Glu
 1 5 10 15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
 20 25 30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
 35 40 45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
 50 55 60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
 65 70 75 80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
 85 90 95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
 100 105 110

Lys Lys Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
 115 120 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
 130 135 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
 145 150 155 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
 165 170 175

Leu Ser Asn Met Met

<210> 34

<211> 13

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (136)..(148)

<223> Rat cardiac troponin I

<400> 34

Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
 1 5 10

<210> 35

<211> 47

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (129)..(175)

<223> Rat cardiac troponin I

<400> 35

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 1 5 10 15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 20 25 30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln
 35 40 45

<210> 36

<211> 157

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (54)..(210)

<223> Rat cardiac troponin I

<400> 36

Leu	Gln	Ile	Ala	Lys	Gln	Glu	Met	Glu	Arg	Glu	Ala	Glu	Glu	Arg	Arg
1				5				10						15	

Gly	Glu	Lys	Gly	Arg	Val	Leu	Ser	Thr	Arg	Cys	Gln	Pro	Leu	Val	Leu
				20				25						30	

Asp	Gly	Leu	Gly	Phe	Glu	Glu	Leu	Gln	Asp	Leu	Cys	Arg	Gln	Leu	His
				35				40				45			

Ala	Arg	Val	Asp	Lys	Val	Asp	Glu	Glu	Arg	Tyr	Asp	Val	Glu	Ala	Lys
				50			55				60				

Val	Thr	Lys	Asn	Ile	Thr	Glu	Ile	Ala	Asp	Leu	Thr	Gln	Lys	Ile	Tyr
				65		70				75			80		

Asp	Leu	Arg	Gly	Lys	Phe	Lys	Arg	Pro	Thr	Leu	Arg	Arg	Val	Arg	Ile
				85			90					95			

Ser	Ala	Asp	Ala	Met	Met	Gln	Ala	Leu	Leu	Gly	Thr	Arg	Ala	Lys	Glu
				100				105				110			

Ser	Leu	Asp	Leu	Arg	Ala	His	Leu	Lys	Gln	Val	Lys	Lys	Glu	Asp	Ile
				115			120				125				

Glu	Lys	Glu	Asn	Arg	Glu	Val	Gly	Asp	Trp	Arg	Lys	Asn	Ile	Asp	Ala
				130		135				140					

Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Phe	Glu	Gly
145					150					155	

<210> 37

<211> 188

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(188)

<223> Rat cardiac troponin I

<400> 37

Ala	Asp	Glu	Ser	Ser	Asp	Ala	Ala	Gly	Glu	Pro	Gln	Pro	Ala	Pro	Ala
1				5				10				15			

Pro	Val	Arg	Arg	Arg	Ser	Ser	Ala	Asn	Tyr	Arg	Ala	Tyr	Ala	Thr	Glu
				20				25				30			

Pro	His	Ala	Lys	Lys	Ser	Lys	Ile	Ser	Ala	Ser	Arg	Lys	Leu	Gln
				35			40				45			

Leu	Lys	Thr	Leu	Met	Leu	Gln	Ile	Ala	Lys	Gln	Glu	Met	Glu	Arg	Glu
				50			55				60				

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val
 180 185

<210> 38

<211> 199

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(199)

<223> Rat cardiac troponin I

<400> 38

Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15

Pro Val Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30

Pro His Ala Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu

130	135	140
Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly		
145	150	155
160		
Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val		
165	170	175
Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg		
180	185	190
Lys Asn Ile Asp Ala Leu Ser		
195		
<210> 39		
<211> 12		
<212> PRT		
<213> Unknown		
<220>		
<221> PEPTIDE		
<222> (188)..(199)		
<223> Human cardiac troponin I		
<400> 39		
Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser Gly		
1	5	10
<210> 40		
<211> 6		
<212> PRT		
<213> Unknown		
<220>		
<221> PEPTIDE		
<222> (70)..(75)		
<223> rat myosin light chain 1, atrial isoform		
<400> 40		
Tyr Gly Gln Cys Gly Asp		
1	5	
<210> 41		
<211> 36		
<212> PRT		
<213> Unknown		
<220>		
<221> PEPTIDE		
<222> (157)..(192)		
<223> rat cardiac troponin I		
<400> 41		
Ala Leu Leu Gly Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His		
1	5	10
15		
Leu Lys Gln Val Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val		
20	25	30
Gly Asp Trp Arg		

35

<210> 42
<211> 65
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(65)
<223> rat cardiac troponin I

<400> 42
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

Ala
65

<210> 43
<211> 11
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (189)..(199)
<223> rat cardiac troponin I

<400> 43
Gly Asp Trp Arg Lys Asn Ile Asp Ala Leu Ser
1 5 10

<210> 44
<211> 12
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (137)..(148)
<223> rat cardiac troponin I

<400> 44
Gly Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg
1 5 10

<210> 45
<211> 47
<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (96)..(142)

<223> Synthetic skeletal troponin I

<400> 45

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
1 5 10 15

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
20 25 30

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln
35 40 45

<210> 46

<211> 27

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (28)..(54)

<223> Rat cardiac troponin I

<400> 46

Ala Tyr Ala Thr Glu Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala
1 5 10 15

Ser Arg Lys Leu Gln Leu Lys Thr Leu Met Leu
20 25

<210> 47

<211> 12

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (137)..(148)

<223> human cardiac troponin I

<400> 47

Lys Phe Lys Arg Pro Thr Leu Arg Arg Val Arg Ile
1 5 10

<210> 48

<211> 161

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(161)

<223> human cardiac/slow skeletal troponin C

<400> 48

Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
 1 5 10 15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
 20 25 30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
 35 40 45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
 50 55 60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65 70 75 80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu Glu Glu
 85 90 95

Leu Ser Asp Leu Phe Arg Met Phe Asp Lys Asn Ala Asp Gly Tyr Ile
 100 105 110

Asp Leu Glu Leu Lys Ile Met Leu Gln Ala Thr Gly Glu Thr Ile
 115 120 125

Thr Glu Asp Asp Ile Glu Glu Leu Met Lys Asp Gly Asp Lys Arg Arg
 130 135 140

Asp Gly Arg Ile Asp Tyr Asp Glu Phe Leu Glu Phe Met Lys Gly Val
 145 150 155 160

Glu

<210> 49
<211> 94
<212> PRT
<213> Unknown

<220>
<221> PEPTIDE
<222> (1)..(94)
<223> human cardiac/slow skeletal troponin C

<400> 49
Met Asp Asp Ile Tyr Lys Ala Ala Val Glu Gln Leu Thr Glu Glu Gln
 1 5 10 15

Lys Asn Glu Phe Lys Ala Ala Phe Asp Ile Phe Val Leu Gly Ala Glu
 20 25 30

Asp Gly Cys Ile Ser Thr Lys Glu Lys Gly Lys Val Met Arg Met Lys
 35 40 45

Gly Gln Asn Pro Thr Pro Glu Glu Lys Gln Glu Met Ile Asp Glu Val
 50 55 60

Asp Glu Asp Gly Ser Gly Thr Val Asp Phe Asp Glu Phe Leu Val Met
 65 70 75 80

Met Val Arg Cys Met Lys Asp Asp Ser Lys Gly Lys Ser Glu
 85 90

<210> 50
 <211> 194
 <212> PRT
 <213> Unknown

 <220>
 <221> PEPTIDE
 <222> (1)...(194)
 <223> human cardiac myosin light chain 1

 <400> 50
 Ala Pro Lys Lys Pro Glu Pro Lys Lys Asp Asp Ala Lys Ala Ala Pro
 1 5 10 15

 Lys Ala Ala Pro Ala Pro Pro Pro Glu Pro Glu Arg Pro Lys
 20 25 30

 Glu Val Glu Phe Asp Ala Ser Lys Ile Lys Ile Glu Phe Thr Pro Glu
 35 40 45

 Gln Ile GLu Glu Phe Lys Glu Ala Phe Met Leu Phe Asp Arg Thr Pro
 50 55 60

 Lys Cys Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg
 65 70 75 80

 Ala Leu Gly Gln Asn Pro Thr Gln Ala Glu Val Leu Arg Val Leu Gly
 85 90 95

 Lys Pro Arg Gln Glu Glu Leu Asn Thr Lys Met Met Asp Phe Glu Thr
 100 105 110

 Phe Leu Pro Met Leu Gln His Ile Ser Lys Asn Lys Asp Thr Glu Tyr
 115 120 125

 Tyr Glu Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Gly Asn
 130 135 140

 Gly Thr Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly
 145 150 155 160

 Glu Arg Leu Thr Glu Asp Glu Val Glu Lys Leu Met Ala Gly Gln Glu
 165 170 175

 Asp Ser Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Ile Met
 180 185 190
 Ser Ser